

S/N 10/790,166

ABSTRACT

~~An apparatus~~ This is a kit for demonstrating Archimedes' principle and
~~comprises a tub for holding fluid, wherein the tub has sides, and further has~~
~~having~~ an overflow spout, such that when a fluid level reaches the overflow
spout, all additional fluid added to the tub will flow out of the overflow spout; and
a stable boat sized to float in the tub without touching the sides of the tub. The
kit may further comprise a balance beam which can balance on a top an edge of
the tub sides, wherein the balance beam comprises a first end and a second end,
~~wherein the first end has a first means~~ one end of the balance beam has an
attachment mechanism ~~for attaching a counter weight, and the second other end~~
~~has a second means~~ an attachment mechanism ~~for attaching a sample weight~~
~~such that when the sample weight is attached to the second this end, and the~~
~~balance beam is balancing on the top edge of the tub, the sample weight will be~~
~~submerged in the fluid in the tub when the balance beam is balancing on the top~~
~~edge of the tub sides. There is also provided a method for using this kit to~~
~~demonstrate Archimedes' principle both for the buoyancy of a floating body, and~~
~~the buoyancy for objects that do not float.~~